PACKAGE No-04 Construction of Classrooms to Govt PU College and providing grill fencing and Other developmental Works to ISRO layout Park, Vishweshwarayya park, Raj kumar Park, Sri Saibaba park Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants

EMB

"5th And Final Bill"

PACKAGE No-04 Construction of Classrooms to Govt PU College and providing grill fencing and Other developmental Works to ISRO layout Park, Vishweshwarayya park, Raj kumar Park, Sri Saibaba park Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants

PRE-MEASUREMENT SHEETS

"5th And Final Bill"

CKAGE No-04 Construction of Classrooms to Govt PU College and providing grill fencing and Other velopmental Works to ISRO layout Park, Vishweshwarayya park, Raj kumar Park, Sri Saibaba park Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (1)

Detailed Measurements

asurement Recorded On:

m o	Discription of Item	No	Length	A.Breadth	Depth	Qty	Unit
1	Demolishing cement concrete manually/ by mechanical means including disposal of material to the appropriate disposal area as per direction of Engineer-in-charge. Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)						
					Present Qty	**0.00**	**Cum**
					Qty Paid upto 4th Bill	**108.57**	**Cum**
					Total Qty	**108.57**	**Cum**
					Deduct Qty Paid upto 4th Bill	**108.57**	**Cum**
					Qty to be paid in 5th Final Bill	**0.00**	**Cum**
2	Demolishing stone rubble masonry manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material to the appropriate disposal area as per direction of Engineerin- charge. In cement mortar						
					Present Qty	**0.00**	**Cum**
					Qty Paid upto 4th Bill	**208.16**	**Cum**
					Total Qty	**208.16**	**Cum**
					Deduct Qty Paid upto 4th Bill	**208.16**	**Cum**
					Qty to be paid in 5th Final Bill	**0.00**	**Cum**
3	Clearing and grubbing road land including uprooting rank vegetation, grass, bushes, shrubs, saplings and trees girth up to 300 mm, removal of stumps of trees cut earlier and disposal of unserviceable materials and stacking of serviceable material to be used or auctioned, including removal and disposal of top organic soil not exceeding 150 mm in thickness. By Manual Means In area of light jungle						
					Present Qty	**0.00**	**Ha**
					Qty Paid upto 4th Bill	**0.00**	**Ha**
					Total Qty	**0.00**	**Ha**
					Deduct Qty Paid upto 4th Bill	**0.00**	**Ha**
					Qty to be paid in 5th Final Bill	**0.00**	**Ha**

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Contractor

AARIN ASSOCIATES BANGALORE Consultant

Asst. Engineer

Asst. Exec. Engineer

PACKAGE No-04 Construction of Classrooms to Govt PU College and providing grill fencing and Other developmental Works to ISRO layout Park, Vishweshwarayya park, Raj kumar Park, Sri Saibaba park Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (2)

Detailed Measurements

Measurement Recorded On: 2/8/23, 20/9/23

Item No	Discription of Item	No	Length	B1	B2	Avg Breadth	Depth	Qty	Unit
4	Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a								
	Yelahanka Lake								
	SSM Foundation								
	LHS Side								
	CH:0.00m to 12.30m	1	12.30			0.80	0.60	5.90	
	CH:12.30m to 26.60m	1	14.30			0.80	0.60	6.86	
	CH:41.60m to 41.60m	1	15.00			0.80	0.60	7.20	
	CH:44.00m to 44.00m	1	2.40			0.80	0.60	1.15	
	For Cobble Stone								
	Yelahanka Lake								
	CH:0.00m to 15.00m	1	15.00	7.90	5.40	6.65	0.25	24.94	
	CH:15.00m to 30.00m	1	15.00	4.30	4.25	4.28	0.25	16.03	
	CH:30.00m to 45.00m	1	15.00	4.25	4.30	4.28	0.25	16.03	
	CH:45.00m to 58.30m	1	13.30	4.30	4.30	4.30	0.25	14.30	
	CH:58.30m to 73.30m	1	15.00	5.40	6.70	6.05	0.25	22.69	
	CH:73.30m to 85.30m	1	12.00	6.70	8.50	7.60	0.25	22.80	
	Deduct Tree	-1	0.60	0.60	0.60	0.60	0.25	-0.09	
	Trapezoidal Formula								
	Part-A		A=13.4 B=19.4 H=14.4,4.40						
			[[13.4+19.4]/2]*9.4				0.25	38.54	
	Part-B		A=17.4 B=12.7 H=6.8,7.20						
			[[17.4+12.7]/2]*7				0.25	26.34	
	Part-C		A=17.4 B=15.00 H=6.6,1.20						
			[[17.4+15.00]/2]*3.9				0.25	15.80	
	Part-D		A=10.40 B=8.60 H=8.45,4.20						
			[[10.40+8.60]/2]*6.3				0.25	15.02	
							Present Qty	**233.51**	**Cum**
							Qty Paid upto 4th Bill	**946.42**	**Cum**
							Total Qty	**1179.93**	**Cum**
							Deduct Qty Paid upto 4th Bill	**946.42**	**Cum**
							Qty to be paid in 5th Final Bill	**233.51**	**Cum**
							Above 125%	**233.51**	**Cum**

C&RC Executive Engineer 2/9/23

Asst. Executive Engineer Project Division Yelahanka Zone BBMP, Bangalore - 92

C&RC Executive Engineer 20/9/23

Asst. Executive Engineer Project Division Yelahanka Zone BBMP, Bangalore - 92

Contractor

AARTH ASSOCIATES DATF Consultant BANGALORE

Asst. Engineer

Asst. Exec. Engineer

CKAGE No-04 Construction of Classrooms to Govt PU College and providing grill fencing and Other velopmental Works to ISRO layout Park, Vishweshwarayya park, Raj kumar Park, Sri Saibaba park Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (3)

Detailed Measurements

easurement Recorded On: 4/8/23

em No	Discription of Item	No	Length	A.Breadth	Depth	Qty	Unit
5	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:4:8 (M5) Using 40 mm nominal size graded crushed coarse aggregates						
	Yelahanka Lake						
	SSM Foundation						
	LHS Side						
	CH:0.00m to 12.30m	1	12.30	0.80	0.15	1.48	
	CH:12.30m to 26.60m	1	14.30	0.80	0.15	1.72	
	CH:41.60m to 41.60m	1	15.00	0.80	0.15	1.80	
	CH:41.60m to 44.00m	1	2.40	0.80	0.15	0.29	
					Present Qty	**5.28**	**Cum**
					Qty Paid upto 4th Bill	**255.50**	**Cum**
					Total Qty	**260.78**	**Cum**
					Deduct Qty Paid upto 4th Bill	**255.50**	**Cum**
					Qty to be paid in 5th Final Bill	**5.28**	**Cum**

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Contractor

AARIN ASSOCIATES DATE BANGALORE
Consultant

Asst. Engineer

Asst. Exec. Engineer

PACKAGE No-04 Construction of Classrooms to Govt PU College and providing grill fencing and Other developmental Works to ISRO layout Park, Vishweshwarayya park, Raj kumar Park, Sri Sai Baba park Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (4)

Detailed Measurements

Measurement Recorded On: 10/8/23, 16/8/23

Item No	Discription of Item	No	Length	A.Breadth	Depth	Qty	Unit
6	Providing Size Stone masonry with hard stone in foundation & plinth with Cement mortar 1:6 (1 cement : 6 coarse sand)						
	Yelahanka Lake						
	1st Step						
	Below Foundation						
	LHS Side						
	CH:0.00m to 12.30m	1	12.30	0.75	0.60	5.54	
	CH:12.30m to 26.60m	1	14.30	0.75	0.60	6.44	
	CH:41.60m to 41.60m	1	15.00	0.75	0.60	6.75	
	CH:44.00m to 44.00m	1	2.40	0.75	0.60	1.08	
	2nd Step						
	Above Foundation						
	LHS Side						
	CH:0.00m to 12.30m	1	12.30	0.60	0.55	4.06	
	CH:12.30m to 26.60m	1	14.30	0.60	0.65	5.58	
	CH:41.60m to 41.60m	1	15.00	0.60	0.55	4.95	
	CH:44.00m to 44.00m	1	2.40	0.60	0.35	0.50	
	RHS Side						
	2nd Step						
	Above Foundation						
	CH:0.00m to 15.40m	1	15.40	1.00	0.30	4.62	
	CH:15.40m to 31.70m	1	16.30	1.00	0.55	8.97	
	CH:31.70m to 46.10m	1	14.40	1.00	0.50	7.20	
					Present Qty	**55.68**	**Cum**
					Qty Paid upto 4th Bill	**683.89**	**Cum**
					Total Qty	**739.57**	**Cum**
					Deduct Qty Paid upto 4th Bill	**683.89**	**Cum**
					Qty to be paid in 5th Final Bill	**55.68**	**Cum**

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92
10/8/23

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92
14/8/23

Contractor

AARTN ASSOCIATES DATE BANGALORE

Consultant

Asst. Engineer

Asst. Exec. Engineer

ACKAGE No-04 Construction of Classrooms to Govt PU College and providing grill fencing and Other evelopmental Works to ISRO layout Park, Vishweshwarayya park, Raj kumar Park, Sri Saibaba park Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (5)

Detailed Measurements

easurement Recorded On:

em No	Discription of Item	No	Length	A.Breadth	Depth	Qty	Unit
7	Providing Size Stone masonry with hard stone in foundation & plinth with Cement mortar 1:6 (1 cement : 6 coarse sand) (Available Stone)						
					Present Qty	**0.00**	**Cum**
					Qty Paid upto 4th Bill	**104.08**	**Cum**
					Total Qty	**104.08**	**Cum**
					Deduct Qty Paid upto 4th Bill	**104.08**	**Cum**
					Qty to be paid in 5th Final Bill	**0.00**	**Cum**

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Contractor

AARIN ASSOCIATES DATE No BANGALORE
Consultant

Asst. Engineer

Asst. Exec. Engineer

PACKAGE No-04 Construction of Classrooms to Govt PU College and providing grill fencing and Other developmental Works to ISRO layout Park, Vishweshwarayya park, Raj kumar Park, Sri Saibaba park Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (6)

Detailed Measurements

Measurement Recorded On: 12/9/23, 26/9/23

Item No	Discription of Item	No	Length	B1	B2	Avg Breadth	Depth	Qty	Unit
8	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:3:6 (M10) Using 20 mm nominal size graded crushed coarse								
	Coping Concrete								
	Yelahanka Lake								
	LHS Side								
	CH:0.00m to 12.30m	1	12.30			0.60	0.10	0.74	
	CH:12.30m to 26.60m	1	14.30			0.60	0.10	0.00	
	CH:41.60m to 41.60m	1	15.00			0.60	0.10	0.00	
	CH:44.00m to 44.00m	1	2.40			0.60	0.10	0.00	
	RHS Side								
	2nd Step								
	Above Foundation								
	CH:0.00m to 15.40m		15.40			1.00	0.10	1.54	
	CH:15.40m to 31.70m		16.30			1.00	0.10	0.00	
	CH:31.70m to 46.10m		14.40			1.00	0.10	0.00	
	For Cobble Stone								
	Yelahanka Lake								
	CH:0.00m to 15.00m	1	15.00	7.90	5.40	6.65	0.15	14.96	
	CH:15.00m to 30.00m	1	15.00	4.30	4.25	4.28	0.15	9.62	
	CH:30.00m to 45.00m	1	15.00	4.25	4.30	4.28	0.15	9.62	
	CH:45.00m to 58.30m	1	13.30	4.30	4.30	4.30	0.15	8.58	
	CH:58.30m to 73.30m	1	15.00	5.40	6.70	6.05	0.15	13.61	
	CH:73.30m to 85.30m	1	12.00	6.70	8.50	7.60	0.15	13.68	
	Deduct Tree	-1	0.60	0.60	0.60	0.60	0.15	-0.05	
	Trapezoidal Formula								
	Part-A	A=13.4 B=19.4 H=14.4,4.40							
		[[13.4+19.4]/2]*9.4					0.15	23.12	
	Part-B	A=17.4 B=12.7 H=6.8,7.20							
		[[17.4+12.7]/2]*7					0.15	15.80	
	Part-C	A=17.4 B=15.00 H=6.6,1.20							

Asst. Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore - 92

12/9/23

Asst. Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore - 92

26/9/23

AARIN ASSOCIATES DATE NO BANGALORE

Contractor | Consultant | Asst. Engineer | Asst. Exec. Engineer

em No	Discription of Item	No	Length	B1	B2	Avg Breadth	Depth	Qty	Unit
			[[17.4+15.00]/2]*3.9				0.15	9.48	
	Part-D								
			A=10.40 B=8.60 H=8.45,4.20						
			[[10.40+8.60]/2]*6.3				0.15	9.01	
							Present Qty	**129.71**	**Cum**
							Qty Paid upto 4th Bill	**570.30**	**Cum**
							Total Qty	**700.01**	**Cum**
							Deduct Qty Paid upto 4th Bill	**570.30**	**Cum**
							Qty to be paid in 5th Final Bill	**129.71**	**Cum**
							Upto 125%	**43.03**	**Cum**
							Above 125%	**86.69**	**Cum**

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

26/9/23

CE 111.22

84.68

Contractor

Consultant

Asst. Engineer

Asst. Exec. Engineer

ACKAGE No-04 Construction of Classrooms to Govt PU College and providing grill fencing and Other evelopmental Works to ISRO layout Park, Vishweshwarayya park, Raj kumar Park, Sri Saibaba park Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants

(8)

Detailed Measurements

easurement Recorded On:

tem No	Discription of Item	No	Length	A.Breadth	Depth	Qty	Unit
10	Removing and Resetting of Cobblestone						
					Present Qty	**0.00**	**Sqm**
					Qty Paid upto 4th Bill	**599.16**	**Sqm**
					Total Qty	**599.16**	**Sqm**
					Deduct Qty Paid upto 4th Bill	**599.16**	**Sqm**
					Qty to be paid in 5th Final Bill	**0.00**	**Sqm**
11	Providing and laying in position Reinforced cement concrete for all Foundation works. The granite/ trap/ basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticizers laid in finished layers, well compacted using needle vibrators, including all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates						
					Present Qty	**0.00**	**Cum**
					Qty Paid upto 4th Bill	**89.94**	**Cum**
					Total Qty	**89.94**	**Cum**
					Deduct Qty Paid upto 4th Bill	**89.94**	**Cum**
					Qty to be paid in 5th Final Bill	**0.00**	**Cum**
12	Removing and resetting of kerb stones						
					Present Qty	**0.00**	**m**
					Qty Paid upto 4th Bill	**685.08**	**m**
					Total Qty	**685.08**	**m**
					Deduct Qty Paid upto 4th Bill	**685.08**	**m**
					Qty to be paid in 5th Final Bill	**0.00**	**m**
13	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete						
					Present Qty	**0.00**	**Nos**
					Qty Paid upto 4th Bill	**4670.82**	**Nos**
					Total Qty	**4670.82**	**Nos**

Contractor

Consultant

Asst. Engineer

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Item No	Discription of Item	No	Length	A.Breadth	Depth	Qty	Unit
					Deduct Qty Paid upto 4th Bill	**4670.82**	**Nos**
					Qty to be paid in 5th Final Bill	**0.00**	**Nos**
14	Painting two coats after filling the surface with synthetic enamel paint in all shades on new plastered concrete surfaces						
					Present Qty	**0.00**	**Sqm**
					Qty Paid upto 4th Bill	**836.15**	**Sqm**
					Total Qty	**836.15**	**Sqm**
					Deduct Qty Paid upto 4th Bill	**836.15**	**Sqm**
					Qty to be paid in 5th Final Bill	**0.00**	**Sqm**
15	Fabricating, providing and erecting in position of MS. Hot dip galvanized Sq. Hallow Poles of 132*132 Heavy gauge of length 3000mm with MS. Hot dip galvanized grill work as per approved design and drawing of chief architect. Using 12*75mm galvanized flat for alround frame and 20mm*20mm galvanized- forged design with square for vertical at 150mm C/C as shown in the drawing including providing forged ornamental arrowhead at top and bottom. The work is inclusive of throughing flat, square rods, placing welding all the joints, including grinding, finishing 2 coats of anticorrosive paint over one coat of metal primer. The rate is inclusive of all materials like MS. Hollow galvanized pipe,flat, forged square rods, cost of labour for all items of work cost painting, welding, cutting, grinding with all lead and lift as per specification including loading with cost and conveyance of all materials, labour, machinery and incidental charges for the successful complete of the work as per the direction Engineer-in-charge of the work.						
					Present Qty	**0.00**	**Sqm**
					Qty Paid upto 4th Bill	**2194.03**	**Sqm**
					Total Qty	**2194.03**	**Sqm**
					Deduct Qty Paid upto 4th Bill	**2194.03**	**Sqm**
					Qty to be paid in 5th Final Bill	**0.00**	**Sqm**

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Contractor

AARTNA ASSOCIATES DATE BANGALORE
Consultant

Asst. Engineer

Asst. Exec. Engineer

Item No	Discription of Item	No	Length	A.Breadth	Depth	Qty	Unit
16	Fabricating, providing and erecting in position Hot dip galvanised Gate. Using 72*72*4.8mm Sq. GI Pipe frame with top pipe bending in heavy duty hydraolic press with sand packing and hot bending to form double arch as per drawing profile,20mm hot dip galvanised sq.rod for verticals at 150mm c/c, as shown in the drawing including providing hot dip galvanised forged omamental design in between sq.rods and heads at top,middle and bottom. Intermediate supports of 75*12mm and 50*6mm arch bent to hot .dip galvanised flats.the work is inclusive of throughing GI.flat GI sq.rods,placing,welding all the joints including grinding,finishing metal patty,painting wo coats enamel painting.The rate isinclusive of all materials like GI sq.pipe,GI.Sq.rods,GI forged designs etc., heavy duty hinges are made out of 75mm solid sq.block assembled with 20mm dia bearing in the three places for each flop. Heavy duty locking arrangements at low places including cost of labou,pailnting,erecting charges using hoist pulley cranes with all lead and lift,loading,transportation,unloading,scaffolding charges and all other incidental charges for sucessful completion of the work as per directions of the Engineer-in-charge of the work.						
					Present Qty	**0.00**	**Sqm**
					Qty Paid upto 4th Bill	**70.70**	**Sqm**
					Total Qty	**70.70**	**Sqm**
					Deduct Qty Paid upto 4th Bill	**70.70**	**Sqm**
					Qty to be paid in 5th Final Bill	**0.00**	**Sqm**
17	Providing, laying & fixing cement base, precast, pre polished cement concrete, designer tiles 25mm thick conforming to IS 1237 heavy duty tiles for flooring, treads of steps and landing, laid on a bed of 12mm thick cement mortar 1:3 mis finished with flush pointing using white cement, including cost of materials, mortar, including cutting, griding the edge to half/full round wherever required, labour, curing complete as per specification.						
					Present Qty	**0.00**	**Sqm**
					Qty Paid upto 4th Bill	**258.14**	**Sqm**
					Total Qty	**258.14**	**Sqm**
					Deduct Qty Paid upto 4th Bill	**258.14**	**Sqm**
					Qty to be paid in 5th Final Bill	**0.00**	**Sqm**
18	Providing & fixing on roof pressed clay tile (Mangalore tile) of 20 mm nominal thickness and of approved size and as per approved pattern on steel frame work complete.						
					Present Qty	**0.00**	**Sqm**
					Qty Paid upto 4th Bill	**90.10**	**Sqm**
					Total Qty	**90.10**	**Sqm**
					Deduct Qty Paid upto 4th Bill	**90.10**	**Sqm**
					Qty to be paid in 5th Final Bill	**0.00**	**Sqm**

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Contractor

Consultant

Asst. Engineer

Asst. Exec. Engineer

tem No	Discription of Item	No	Length	A.Breadth	Depth	Qty	Unit
19	Executive Bench- Made out of Sadarahalli grey granite stone with hand supports with 3 line finishing with arch/plain design with 100mm slabs. Height 90x Length 1500 width 45 cms (1.50 * 0.45 * 0.90m) (Including lead and lift charges) (Inclusive of all taxes) As per the direction of Engineer Incharge						
					Present Qty	**0.00**	**each**
					Qty Paid upto 4th Bill	**40.00**	**each**
					Total Qty	**40.00**	**each**
					Deduct Qty Paid upto 4th Bill	**40.00**	**each**
					Qty to be paid in 5th Final Bill	**0.00**	**each**

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Contractor

AARTN ASSOCIATES BANGALORE

Consultant

Asst. Engineer

Asst. Exec. Engineer

PACKAGE No-04 Construction of Classrooms to Govt PU College and providing grill fencing and Other Developmental Works to ISRO layout Park, Vishweshwarayya park, Raj kumar Park, Sri Saibaba park Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants

Detailed Measurements

Measurement Recorded On: 16/9/23

Item No	Discription of Item	No	Length	B1	B2	A.Breadth	Depth	Qty	Unit
20	Construction of Embankment by excavating the available approved Gravel/Murrum deposited at a place or borrow pits during or prior excavation with all lifts and lead, transportation to site, spreading, grading to required slope and compacting to meet the requirement complete as per specifications, including cost of labour,rolling,water,all materials,usage& all other appurtenaces required to complete the work.								
	For Cobble Stone Area								
	Trapezoidal Formula								
	Part-A		A=13.4 B=19.4 H=14.4,4.40						
			[[13.4+19.4]/2]*9.4				0.25	38.54	
	Part-B		A=17.4 B=12.7 H=6.8,7.20						
			[[17.4+12.7]/2]*7				0.25	26.34	
	Part-C		A=17.4 B=15.00 H=6.6,1.20						
			[[17.4+15.00]/2]*3.9				0.25	15.80	
	Part-D		A=10.40 B=8.60 H=8.45,4.20						
			[[10.40+8.60]/2]*6.3				0.25	15.02	
							Present Qty	**95.69**	**Cum**
							Qty Paid upto 4th Bill	**98.36**	**Cum**
							Total Qty	**194.05**	**Cum**
							Deduct Qty Paid upto 4th Bill	**98.36**	**Cum**
							Qty to be paid in 5th Final Bill	**95.69**	**Cum**
							Above 125%	**95.69**	**Cum**

C&E
16/9/23
Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Contractor

MARTIN ASSOCIATES DATF BANGALORE
Consultant

Asst. Engineer

Asst. Exec. Engineer

(13)

ACKAGE No-04 Construction of Classrooms to Govt PU College and providing grill fencing and Other levelopmental Works to ISRO layout Park, Vishweshwarayya park, Raj kumar Park, Sri Saibaba park Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants

Detailed Measurements

leasurement Recorded On:

tem No	Discription of Item	No	Length	A.Breadth	Depth	Qty	Unit
21	Providing and laying in position Reinforced cement concrete for all Foundation works. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticizers laid in finished layers, well compacted using needle vibrators, including all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) M20 Design Mix Using 20 mm nominal size graded crushed coarseaggregates						
					Present Qty	**0.00**	**Cum**
					Qty Paid upto 4th Bill	**104.08**	**Cum**
					Total Qty	**104.08**	**Cum**
					Deduct Qty Paid upto 4th Bill	**104.08**	**Cum**
					Qty to be paid in 5th Final Bill	**0.00**	**Cum**

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Contractor

RTN ASSOCIATES BANGALORE

Consultant

Asst. Engineer

Asst. Exec. Engineer

PACKAGE No-04 Construction of Classrooms to Govt PU College and providing grill fencing and Other Developmental Works to ISRO layout Park, Vishweshwarayya park, Raj kumar Park, Sri Saibaba park Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants

Detailed Measurements

Measurement Recorded On: 22/8/23

Item No	Discription of Item	No	Length	A.Breadth	Depth	Qty	Unit
22	Providing and laying in Reinforced cement concrete for all Basement & surface level works, return walls, retaining walls, sunken floors etc. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates						
	Yelahanka Lake						
	RHS Side						
	Bottom Raft						
	CH:0.00m to 15.40m	1	15.40	0.60	0.20	1.85	
	CH:15.40m to 31.70m	1	16.30	0.60	0.20	1.96	
	CH:31.70m to 46.10m	1	14.40	0.60	0.20	1.73	
	RCC Wall						
	RHS Side						
	CH:0.00m to 15.40m	2	15.40	0.30	0.35	3.23	
	CH:15.40m to 31.70m	2	16.30	0.30	0.35	3.42	
	CH:31.70m to 46.10m	2	14.40	0.30	0.35	3.02	
	Top Slab						
	CH:0.00m to 15.40m	1	15.40	0.60	0.15	1.39	
	CH:15.40m to 31.70m	1	16.30	0.60	0.15	1.47	
	CH:31.70m to 46.10m	1	14.40	0.60	0.15	1.30	
					Present Qty	**19.36**	**Cum**
					Qty Paid upto 4th Bill	**0.00**	**Cum**
					Total Qty	**19.36**	**Cum**
					Deduct Qty Paid upto 4th Bill	**0.00**	**Cum**
					Qty to be paid in 5th Final Bill	**19.36**	**Cum**

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Contractor

MARTIN ASSOCIATES BANGALORE
Consultant

Asst. Engineer

Asst. Exec. Engineer

PACKAGE No-04 Construction of Classrooms to Govt PU College and providing grill fencing and Other developmental Works to ISRO layout Park, Vishweshwarayya park, Raj kumar Park, Sri Saibaba park Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants

Detailed Measurements

Measurement Recorded On: 18/8/23

Item No	Discription of Item		No	Length	Breadth	Depth	Qty	Unit
23	Supplying, Fitting and Placing TMT Fe 500 & above Reinforcement in Foundation / Substructure / Superstructure complete as per Drawing and Technical Specifications.							
	Yelahanka Lake							
	RHS Side							
	Bottom Raft							
	Total Length=46.10m							
	Main Bar 10mm dia @120mm c/c							
	d=0.61kg/m							
	Distrubution Bar 10mm dia @150mm c/c							
	d=0.61kg/m							
	No of U Bars=385		385	0.60		0.61	140.91	
	No of distrubution Bars=4		4	46.10		0.61	112.48	
	RCC Wall							
	Total Length=46.10m							
	Main Bar 10mm dia @120mm c/c							
	d=0.61kg/m							
	Distrubution Bar 10mm dia @150mm c/c							
	d=0.61kg/m							
	No of U Bars=383		383	1.20		0.61	280.36	
	No of distrubution Bars=8		8	46.10		0.61	224.97	
	Top Slab							
	Total Length=46.10m							
	Main Bar 10mm dia @120mm c/c							
	d=0.61kg/m							
	Distrubution Bar 10mm dia @150mm c/c							
	d=0.61kg/m							
	No of U Bars=383		383	0.60		0.61	140.18	
	No of distrubution Bars=4		4	46.10		0.61	112.48	
							1011.38	
						Present Qty	**1.01**	**Tn**
						Qty Paid upto 4th Bill	**2.84**	**Tn**
						Total Qty	**3.85**	**Tn**
						Deduct Qty Paid upto 4th Bill	**2.84**	**Tn**
						Qty to be paid in 5th Final Bill	**1.01**	**Tn**

Certified

18/8/23

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Contractor

MARTIN ASSOCIATES DATE BANGALORE
Consultant

Asst. Engineer

Asst. Exec. Engineer

ACKAGE No-04 Construction of Classrooms to Govt PU College and providing grill fencing and Other levelopmental Works to ISRO layout Park, Vishweshwarayya park, Raj kumar Park, Sri Saibaba park Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants

Detailed Measurements

Measurement Recorded On: 16/9/23

Item No	Discription of Item	No	Length	A.Breadth	Depth	Qty	Unit
24	Providing 15 mm cement plaster on the rough side of single or half brick wall of mix :1:6 (1 cement: 6 fine sand) including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge.						
	Yelahanka Lake						
	RHS Side						
	For Top Area						
	CH:0.00m to 15.40m	1	15.40	0.70		10.78	
	CH:15.40m to 31.70m	1	16.30	0.70		11.41	
	CH:31.70m to 46.10m	1	14.40	0.70		10.08	
	For Side Wall						
	CH:0.00m to 15.40m	1	15.40		0.30	4.62	
	CH:15.40m to 31.70m	1	16.30		0.30	4.89	
	CH:31.70m to 46.10m	1	14.40		0.30	4.32	
	For SSM Area						
	CH:0.00m to 15.40m	1	15.40	0.25		3.85	
	CH:15.40m to 31.70m	1	16.30	0.25		4.08	
	CH:31.70m to 46.10m	1	14.40	0.25		3.60	
	For SSM Wall						
	CH:0.00m to 15.40m	1	15.40		0.30	4.62	
	CH:15.40m to 31.70m	1	16.30		0.55	8.97	
	CH:31.70m to 46.10m	1	14.40		0.50	7.20	
	At End						
		1	0.75	0.90		0.68	
		1	0.25	0.55		0.14	
					Present Qty	**79.22**	**Sqm**
					Qty Paid upto 4th Bill	**0.00**	**Sqm**
					Total Qty	**79.22**	**Sqm**
					Deduct Qty Paid upto 4th Bill	**0.00**	**Sqm**
					Qty to be paid in 5th Final Bill	**79.22**	**Sqm**
					Upto 125%	**31.73**	**Sqm**
					Above 125%	**47.50**	**Sqm**

Cafe Q 16/9/23

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

47.49

Contractor

MARTIN ASSOCIATES BANGALORE
Consultant

Asst. Engineer

Asst. Exec. Engineer

PACKAGE No-04 Construction of Classrooms to Govt PU College and providing grill fencing and Other developmental Works to ISRO layout Park, Vishweshwarayya park, Raj kumar Park, Sri Saibaba park Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants

Detailed Measurements

Measurement Recorded On:

Item No	Discription of Item	No	Length	A.Breadth	Depth	Qty	Unit
25	Providing and laying Polished Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing , curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge.** Polished Granite stone slab Black, Cherry Red, Brown, Cat Eye, River Pink or equivalent.						
					Present Qty	**0.00**	**Sqm**
					Qty Paid upto 4th Bill	**95.75**	**Sqm**
					Total Qty	**95.75**	**Sqm**
					Deduct Qty Paid upto 4th Bill	**95.75**	**Sqm**
					Qty to be paid in 5th Final Bill	**0.00**	**Sqm**
26	Providing and fixing of wall cladding using 20mm thick gang saw water cut Shiva gold granite, grey granite in CM 1:3 (1 cement : 3 coarse sand) proportion cut to required shape, pattern with paper joints, finished with cement mortal using white cement and colour pigments to match the colour of slab making through jointing with sealant, making holes 25mmx12mm grooves in joints including cost of all materials, mortar, labour, curing etc., complete.						
					Present Qty	**0.00**	**Sqm**
					Qty Paid upto 4th Bill	**56.45**	**Sqm**
					Total Qty	**56.45**	**Sqm**
					Deduct Qty Paid upto 4th Bill	**56.45**	**Sqm**
					Qty to be paid in 5th Final Bill	**0.00**	**Sqm**

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Contractor

AARTH ASSOCIATES DATE BANGALORE
Consultant

Asst. Engineer

Asst. Exec. Engineer

PACKAGE No-04 Construction of Classrooms to Govt PU College and providing grill fencing and Other developmental Works to ISRO layout Park, Vishweshwarayya park, Raj kumar Park, Sri Saibaba park Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants

MEASUREMENT SHEETS

"5th And Final Bill"

PACKAGE No-04 Construction of Classrooms to Govt PU College and providing grill fencing and Other developmental Works to ISRO layout Park, Vishweshwarayya park, Raj kumar Park, Sri Saibaba park Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants

Detailed Measurements

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
4	Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work In all kinds of soils Depth upto 1.5 m								
	Vide Premeasurement page no. 02					233.51			
	Present Qty					**233.51**	**Cum**		
	Above 125%					**233.51**	**Cum**	**205.00**	**47869.42**
5	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:4:8 (M5) Using 40 mm nominal size graded crushed coarse aggregates								
	Vide Premeasurement page no. 3					5.28			
	Present Qty					**5.28**	**Cum**	**6135.00**	**32392.80**
6	Providing Size Stone masonry with hard stone in foundation & plinth with Cement mortar 1:6 (1 cement : 6 coarse sand)								
	Vide Premeasurement page no. 4					55.68			
	Present Qty					**55.68**	**Cum**	**6206.32**	**345537.11**
8	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:3:6 (M10) Using 20 mm nominal size graded crushed coarse aggregates								
	Vide Premeasurement page no. 7					129.71			
	Present Qty					**129.71**	**Cum**		
	Upto 125%					**43.03**	**Cum**	**6782.98**	**291837.70**
	Above 125%					**86.69**	**Cum**	**6782.98**	**587993.61**
20	Construction of Embankment by excavating the available approved Gravel/Murrum deposited at a place or borrow pits during or prior excavation with all lifts and lead, transportation to site, spreading, grading to required slope and compacting to meet the requirement complete as per specifications, including cost of labour,rolling,water,all materials,usage& all other appurtenaces required to complete the work.								
	Vide Premeasurement page no.					95.69			
	Present Qty					**95.69**	**Cum**		
	Above 125%					**95.69**	**Cum**	**460.16**	**44034.65**

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Contractor

ARTN ASSOCIATES DATF Consultant

Asst. Engineer

Asst. Exec. Engineer

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
22	Providing and laying in Reinforced cement concrete for all Basement & surface level works, return walls, retaining walls, sunken floors etc. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) M20 Design Mix Using 20 mm nominal size graded crushed coarseaggregates								
	Vide Premeasurement page no. -14-								
						19.36			
					Present Qty	**19.36**	**Cum**	**7518.85**	**145579.90**
23	Supplying, Fitting and Placing TMT Fe 500 & above Reinforcement in Foundation / Substructure /Superstructure complete as per Drawing and Technical Specifications.								
	Vide Premeasurement page no. -15-								
						1.01			
					Present Qty	**1.01**	**Tn**	**107945.19**	**109173.61**
24	Providing 15 mm cement plaster on the rough side of single or half brick wall of mix :1:6 (1 cement: 6 fine sand) including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge.								109034.00
	Vide Premeasurement page no. -16-								
						79.22			
					Present Qty	**79.22**	**Sqm**		
					Upto 125%	**~~31.73~~**	**Sqm**	**289.30**	**9177.99**
					Above 125%	**47.50**	**Sqm**	**289.30**	**13740.95**

47.49

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Contractor

AARTIN ASSOCIATES DATE Consultant BANGALORE

Asst. Engineer

Asst. Exec. Engineer

ACKAGE No-04 Construction of Classrooms to Govt PU College and providing grill fencing and Other levelopmental Works to ISRO layout Park, Vishweshwarayya park, Raj kumar Park, Sri Saibaba park Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants

Detailed Measurements

easurement Recorded On: 20/10/23

em lo	Discription of Item	No	Length	B1	B2	Avg Breadth	Depth	Qty	Unit	Rate	Amount
9	Providing and laying heavy duty cobble stones 60mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per m2 over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and Usage charges of machinery complete as per specifications. Volume-2										
	For Cobble Stone										
	Yelahanka Lake										
	CH:0.00m to 15.00m	1	15.00	7.90	5.40	6.65		99.75			
	CH:15.00m to 30.00m	1	15.00	4.30	4.25	4.28		64.13			
	CH:30.00m to 45.00m	1	15.00	4.25	4.30	4.28		64.13			
	CH:45.00m to 58.30m	1	13.30	4.30	4.30	4.30		57.19			
	CH:58.30m to 73.30m	1	15.00	5.40	6.70	6.05		90.75			
	CH:73.30m to 85.30m	1	12.00	6.70	8.50	7.60		91.20			
	Deduct Tree	-1	0.60	0.60	0.60	0.60		-0.36			
	Trapezoidal Formula										
	Part-A		A=13.4 B=19.4 H=14.4,4.40								
			[[13.4+19.4]/2]*9.4					154.16			
	Part-B		A=17.4 B=12.7 H=6.8,7.20								
			[[17.4+12.7]/2]*7					105.35			
	Part-C		A=17.4 B=15.00 H=6.6,1.20								
			[[17.4+15.00]/2]*3.9					63.18			
	Part-D		A=10.40 B=8.60 H=8.45,4.20								
			[[10.40+8.60]/2]*6.3					60.09			
								Present Qty	**849.56**	**Sqm**	
								Qty Paid upto 4th Bill	**1791.45**	**Sqm**	
								Total Qty	**2641.01**	**Sqm**	
								Deduct Qty Paid upto 4th Bill	**1791.45**	**Sqm**	
								Qty to be paid in 5th Final Bill	**849.56**	**Sqm**	
								Upto 125%	**49.49**	**Sqm**	**1243.59**	**61542.40**
								Above 125%	**800.07**	**Sqm**	**1243.59**	**994962.89**

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Contractor

Consultant

Asst. Engineer

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Asst. Exec. Engineer

ACKAGE No-04 Construction of Classrooms to Govt PU College and providing grill fencing and Other levelopmental Works to ISRO layout Park, Vishweshwarayya park, Raj kumar Park, Sri Saibaba park Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (21)

Detailed Measurements

asurement Recorded On: 30 | 10 | 23

m	Discription of Item	No	Length	A.Breadth	Depth	Qty	Unit	Rate	Amount
	Artist Custom designed light art sculptures life size various postures made with use of 6mm & 8mm MS sheet metal, fabrication with description of each sculpture. Sculpture lighting with IP67 grade LED RGBW scuplture lights with profile and casing, 24V with DC drivers, waterproof enclosures, accessories, cables, metal base, platform to base holding bolts and nuts, clamps, complete installation at project site as per base platforms, light and sculpture integration. Design to build artworks, sculptor fee, Labour, transportation, installation at predefined								
	Yelahanka Lake								
		12				12.00			
					Present Qty	**12.00**	**each**		
					Qty Paid upto 4th Bill	**0.00**	**each**		
					Total Qty	**12.00**	**each**		
					Deduct Qty Paid upto 4th Bill	**0.00**	**each**		
					Qty to be paid in 5th Final Bill	**12.00**	**each**	**624418.56**	**7493022.72**

30/10/23

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

12/6/24

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Contractor

Consultant

Asst. Engineer

Asst. Exec. Engineer

PACKAGE No-04 Construction of Classrooms to Govt PU College and providing grill fencing and Other developmental Works to ISRO layout Park, Vishweshwarayya park, Raj kumar Park, Sri Saibaba park Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants 22

Detailed Measurements

Measurement Recorded On:

Item No	Discription of Item	No	Length	A.Breadth	Depth	Qty	Unit
28	Artist Custom designed Light art sculpture - social media selfie photobooth made of sheet metal and wood material, duco paint finishing, engraved letters as per approved designs.Design to build artworks, transportation, artist fee, labour, installation, integration selfie lights comprising LEDRGBW sculpture lights with IP67 protection, 24V, DC drivers, accessories, wires at predefined site locations						
					Present Qty	**0.00**	**each**
					Qty Paid upto 4th Bill	**0.00**	**each**
					Total Qty	**0.00**	**each**
					Deduct Qty Paid upto 4th Bill	**0.00**	**each**
					Qty to be paid in 5th Final Bill	**0.00**	**each**
29	Artist custom designed dynamic and colouful 3D LED light Sign (NAMMA YELAHANKA) measuring 16.5 mtrs x 3 mts made up of trimp cap with acrylic sheet with support metal fabrication for each section for firm ground hold, IP67 grade RGBW LED signage lights with capability of creating millions of lightcombination, programming combinations, 24V with necessary drivers, heat dissipitation body, DMX 512 control, T & I Connectors with dxm cables and splitters, strobe lights, accessories, base plates,power integration, light programming,						
					Present Qty	**0.00**	**each**
					Qty Paid upto 4th Bill	**0.00**	**each**
					Total Qty	**0.00**	**each**
					Deduct Qty Paid upto 4th Bill	**0.00**	**each**
					Qty to be paid in 5th Final Bill	**0.00**	**each**

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Contractor

Consultant

Asst. Engineer

Asst. Exec. Engineer

PACKAGE No-04 Construction of Classrooms to Govt PU College and providing grill fencing and Other developmental Works to ISRO layout Park, Vishweshwarayya park, Raj kumar Park, Sri Saibaba park Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (23)

Detailed Measurements

Measurement Recorded On: 30/10/23

Item No	Discription of Item	No	Length	A.Breadth	Depth	Qty	Unit	Rate	Amount
30	Finishing walls with water proofing cement paint of required shade :New work (Two coats applied @ 4.84 kg/10 m^2) to give an even shade after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge.								
	Yelahanka Lake								
	LHS Side								
	CH:0.00m to 12.30m	1	12.30		0.55	6.77			
	CH:12.30m to 26.60m	1	14.30		0.65	9.30			
	CH:41.60m to 41.60m	1	15.00		0.55	8.25			
	CH:44.00m to 44.00m	1	2.40		0.35	0.84			
	Bridge-1								
	CH:0.00m to 43.00m	2	43.00		1.25	107.50			
	Bridge-2								
	CH:0.00m to 43.00m	2	43.00		1.25	107.50			
					Present Qty	**240.15**	**Sqm**		
					Qty Paid upto 4th Bill	**258.54**	**Sqm**		
					Total Qty	**498.69**	**Sqm**		
					Deduct Qty Paid upto 4th Bill	**258.54**	**Sqm**		
					Qty to be paid in 5th Final Bill	**240.15**	**Sqm**		
					Upto 125%	**128.89**	**Sqm**	**94.17**	**12136.79**
					Above 125%	**111.27**	**Sqm**	**94.17**	**10477.56**

Checked
30/10/23
Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Contractor

Consultant

Asst. Engineer

Asst. Exec. Engineer

PACKAGE No-04 Construction of Classrooms to Govt PU College and providing grill fencing and Other developmental Works to ISRO layout Park, Vishweshwarayya park, Raj kumar Park, Sri Saibaba park Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants 24

Detailed Measurements

Measurement Recorded On:

Item No	Discription of Item	No	Length	A.Breadth	Depth	Qty	Unit
31	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade: One coats on old work as per specifications and as per directions of Engineer in charge.						
					Present Qty	**0.00**	**Sqm**
					Qty Paid upto 4th Bill	**293.44**	**Sqm**
					Total Qty	**293.44**	**Sqm**
					Deduct Qty Paid upto 4th Bill	**293.44**	**Sqm**
					Qty to be paid in 5th Final Bill	**0.00**	**Sqm**
32	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete. Fixed to openings /wooden frames with rawl plugs screws etc.						
					Present Qty	**0.00**	**kg**
					Qty Paid upto 4th Bill	**4738.12**	**kg**
					Total Qty	**4738.12**	**kg**
					Deduct Qty Paid upto 4th Bill	**4738.12**	**kg**
					Qty to be paid in 5th Final Bill	**0.00**	**kg**
33	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying priming coat of approved steel primer. M.S.tube including cost of materials, labour, usage charges of machinery complete as per specifications and as per directions of the Engineerin- Charge.						
					Present Qty	**0.00**	**kg**
					Qty Paid upto 4th Bill	**688.50**	**kg**
					Total Qty	**688.50**	**kg**
					Deduct Qty Paid upto 4th Bill	**688.50**	**kg**
					Qty to be paid in 5th Final Bill	**0.00**	**kg**

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

ractor

Consultant

Asst. Engineer

Asst. Exec. Engineer

Item No	Discription of Item	No	Length	A.Breadth	Depth	Qty	Unit
34	Providing and laying in position Reinforced cement concrete for all Foundation works. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticizers laid in finished layers, well compacted using needle vibrators, including all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates (Including Centering and Shuttering for Columns)						28
	Present Qty					**0.00**	**Cum**
	Qty Paid upto 4th Bill					**8.01**	**Cum**
	Total Qty					**8.01**	**Cum**
	Deduct Qty Paid upto 4th Bill					**8.01**	**Cum**
	Qty to be paid in 5th Final Bill					**0.00**	**Cum**
35	Providing and laying in position Reinforced cement concrete for all Foundation works. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticizers laid in finished layers, well compacted using needle vibrators, including all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates (Including Centering and Shuttering for Lintel, Beams, Slab)						
	Present Qty					**0.00**	**Cum**
	Qty Paid upto 4th Bill					**105.49**	**Cum**
	Total Qty					**105.49**	**Cum**
	Deduct Qty Paid upto 4th Bill					**105.49**	**Cum**
	Qty to be paid in 5th Final Bill					**0.00**	**Cum**
36	Providing Thermo-Mechanically Treated bars of grade Fe-500D or more Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position, binding and anchoring to adjacentmembers whereever necessary complete as per Design including cost of material, labour, usage charges complete as per specifications. (The laps and wastages shall not be measured separately) First Floor						
	Present Qty					**0.00**	**kg**
	Qty Paid upto 4th Bill					**15618.65**	**kg**
	Total Qty					**15618.65**	**kg**
	Deduct Qty Paid upto 4th Bill					**15618.65**	**kg**
	Qty to be paid in 5th Final Bill					**0.00**	**kg**

Contractor

Consultant

Asst. Engineer

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore

Asst. Executive Engineer

Item No	Discription of Item	No	Length	A.Breadth	Depth	Qty	Unit
37	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x150x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications. First Floor						26
					Present Qty	0.00	Sqm
					Qty Paid upto 4th Bill	246.88	Sqm
					Total Qty	246.88	Sqm
					Deduct Qty Paid upto 4th Bill	246.88	Sqm
					Qty to be paid in 5th Final Bill	0.00	Sqm
38	Providing 20 mm cement plaster of mix :1:4 (1 cement: 4 fine sand) to brick/stone masonary including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge. First Floor						
					Present Qty	0.00	Sqm
					Qty Paid upto 4th Bill	289.88	Sqm
					Total Qty	289.88	Sqm
					Deduct Qty Paid upto 4th Bill	289.88	Sqm
					Qty to be paid in 5th Final Bill	0.00	Sqm
39	Providing 12 mm cement plaster with cement mortar 1:6 (1 cement: 6 fine sand) including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost ofmaterials, labour, curing complete as per specifications and as per directions of Engineer-in-charge. First Floor						
					Present Qty	0.00	Sqm
					Qty Paid upto 4th Bill	627.77	Sqm
					Total Qty	627.77	Sqm
					Deduct Qty Paid upto 4th Bill	627.77	Sqm
					Qty to be paid in 5th Final Bill	0.00	Sqm
40	Finishing walls with water proofing cement paint of required shade :New work (Two coats applied @ 4.84 kg/10 m^2) to give an even shade after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge. First Floor						
					Present Qty	0.00	Sqm
					Qty Paid upto 4th Bill	258.54	Sqm
					Total Qty	258.54	Sqm
					Deduct Qty Paid upto 4th Bill	258.54	Sqm

Contractor

Consultant

Asstt Engineer

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore

Item No	Discription of Item	No	Length	A.Breadth	Depth	Qty	Unit
					Qty to be paid in 5th Final Bill	**0.00**	**Sqm**
41	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade: One coats on old work as per specifications and as per directions of Engineer in charge. First Floor						
					Present Qty	**0.00**	**Sqm**
					Qty Paid upto 4th Bill	**293.44**	**Sqm**
					Total Qty	**293.44**	**Sqm**
					Deduct Qty Paid upto 4th Bill	**293.44**	**Sqm**
					Qty to be paid in 5th Final Bill	**0.00**	**Sqm**

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Contractor

Consultant

Asst! Engineer

Asst. Exec. Engineer

PACKAGE No-04 Construction of Classrooms to Govt PU College and providing grill fencing and Other Developmental Works to ISRO layout Park, Vishweshwarayya park, Raj kumar Park, Sri Saibaba park Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants

23

Detailed Measurements

Measurement Recorded On: 30/10/23

Item No	Discription of Item	No	Length	A.Breadth	Depth	Qty	Unit	Rate	Amount
42	Providing and laying Polished Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing , curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge.** Polished Granite stone slab Black, Cherry Red, Brown, Cat Eye, River Pink or equivalent.								
	Yelahanka Lake								
	RHS Side								
	For Top Area								
	CH:0.00m to 15.40m	1	15.40	0.70		10.78			
	CH:15.40m to 31.70m	1	16.30	0.70		11.41			
	CH:31.70m to 46.10m	1	14.40	0.70		10.08			
	For Side Wall								
	CH:0.00m to 15.40m	1	15.40		0.30	4.62			
	CH:15.40m to 31.70m	1	16.30		0.30	4.89			
	CH:31.70m to 46.10m	1	14.40		0.30	4.32			
	For SSM Area								
	CH:0.00m to 15.40m	1	15.40	0.25		3.85			
	CH:15.40m to 31.70m	1	16.30	0.25		4.08			
	CH:31.70m to 46.10m	1	14.40	0.25		3.60			
					Present Qty	**57.63**	**sqm**		
					Qty Paid upto 4th Bill	**267.71**	**sqm**		
					Total Qty	**325.34**	**sqm**		
					Deduct Qty Paid upto 4th Bill	**267.71**	**sqm**		
					Qty to be paid in 5th Final Bill	**57.63**	**sqm**	**3330.81**	**191938.20**

C.E.C 30/10/23

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Contractor

Consultant

Asst. Engineer

Asst. Exec. Engineer

PACKAGE No-04 Construction of Classrooms to Govt PU College and providing grill fencing and Other development Works to ISRO layout Park, Vishweshwarayya park, Raj kumar Park, Sri Saibaba park Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants

29

Detailed Measurements

Measurement Recorded On: 30/10/23

Item No	Discription of Item	No	Length	A.Breadth	Depth	Qty	Unit	Rate	Amount
43	Providing and fixing of wall cladding using 20mm thick gang saw water cut Shiva gold granite, grey granite in CM 1:3 (1 cement : 3 coarse sand) proportion cut to required shape, pattern with paper joints, finished with cement mortal using white cement and colour pigments to match the colour of slab making through jointing with sealant, making holes 25mmx12mm grooves in joints including cost of all materials, mortar, labour, curing etc., complete.								
	Yelahanka Lake								
	RHS Side								
	For SSM Wall								
	CH:0.00m to 15.40m	1	15.40		0.30	4.62			
	CH:15.40m to 31.70m	1	16.30		0.55	8.97			
	CH:31.70m to 46.10m	1	14.40		0.50	7.20			
	At End								
		1	0.75	0.90		0.68			
		1	0.25	0.55		0.14			
					Present Qty	**21.60**	**Sqm**		
					Qty Paid upto 4th Bill	**62.73**	**Sqm**		
					Total Qty	**84.33**	**Sqm**		
					Deduct Qty Paid upto 4th Bill	**62.73**	**Sqm**		
					Qty to be paid in 5th Final Bill	**21.60**	**Sqm**	**3552.16**	**76717.72**

30/10/23

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Contractor

Consultant

Asst. Engineer

Asst. Exec. Engineer

PACKAGE No-04 Construction of Classrooms to Govt PU College and providing grill fencing and Other developmental Works to ISRO layout Park, Vishweshwarayya park, Raj kumar Park, Sri Saibaba park Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (3D)

Detailed Measurements

Measurement Recorded On:

Item No	Discription of Item	No	Length	A.Breadth	Depth	Qty	Unit
44	Providing Honne wood frames of doors, windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps), but including cost of materials, labour, usage charges complete as per specifications First Floor						
	Present Qty					**0.00**	**cum**
	Qty Paid upto 4th Bill					**0.32**	**cum**
	Total Qty					**0.32**	**cum**
	Deduct Qty Paid upto 4th Bill					**0.32**	**cum**
	Qty to be paid in 5th Final Bill					**0.00**	**cum**
45	Fixing of door frame in an existing opening including embedding frame in floor and walls after cutting masonry for holdfasts for embedding holdfast in cement concrete 1:3:6 of 20mm and down size granite metal painting two coats of coal tar to sides of frame, making good the damages to walls and floor as required and disposal of the debris with lead upto 50 m. including cost of materials, labour charges, complete as per specifications. First Floor						
	Present Qty					**0.00**	**Nos**
	Qty Paid upto 4th Bill					**3.00**	**Nos**
	Total Qty					**3.00**	**Nos**
	Deduct Qty Paid upto 4th Bill					**3.00**	**Nos**
	Qty to be paid in 5th Final Bill					**0.00**	**Nos**
46	Providing and fixing in position fully panelled Honne wood shutters for doors with stiles and rails of 40mm. thick with bottom and lock rails 180mm wide top rail and stiles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, usage charges complete as per specifications. (excluding cost of fixtures) First Floor						
	Present Qty					**0.00**	**Sqm**
	Qty Paid upto 4th Bill					**8.97**	**Sqm**
	Total Qty					**8.97**	**Sqm**
	Deduct Qty Paid upto 4th Bill					**8.97**	**Sqm**
	Qty to be paid in 5th Final Bill					**0.00**	**Sqm**
47	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete. Fixed to openings / wooden frames with rawl plugs screws etc.						
	Present Qty					**0.00**	**kg**

Contractor

Consultant

Asst. Engineer

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Asst. Exec. Engineer

Item No	Discription of Item	No	Length	A.Breadth	Depth	Qty	Unit
					Qty Paid upto 4th Bill	2395.54	kg
					Total Qty	2395.54	kg
					Deduct Qty Paid upto 4th Bill	2395.54	kg
					Qty to be paid in 5th Final Bill	0.00	kg
48	Providing & fixing of 3-track x 2-panel sliding windows made out of multi chambered UPVC(Matching to RAL-9016) sections and with minimum TiO2(Titanium Dioxide) at 6PHR with TPE(Thermo Plastic Elastomer) and lead free, gaskets -grey colour having isolated drainage and reinforced with Galvanized Iron profile through-out the window frame. The outer frame having an overall size of 108mm width x 45mmheight with reinforcement of 1mm						
					Present Qty	0.00	Sqm
					Qty Paid upto 4th Bill	0.00	Sqm
					Total Qty	0.00	Sqm
					Deduct Qty Paid upto 4th Bill	0.00	Sqm
					Qty to be paid in 5th Final Bill	0.00	Sqm
49	Providing & fixing of louvered ventilator made out of multi chambered UPVC(Matching to RAL-9016) sections and with minimum TiO2(Titanium Dioxide) at 6PHR with TPE(Thermo Plastic Elastomer) and lead free with gaskets -grey colour having isolated drainage and reinforced with Galvanized Iron profile through-out the ventilator frame. The frame having overall size of 39mm x 39mm with GI reinforcement of 1mm thickness. Louver clip in Aluminium (powder coated in white) will be used on the frame along with plastic parts for fixing the 4 mm pin head glass. Wall thickness of frame shall be 2mm.Maximum possible size – 1000mm x 1000mm.(The cost is inclusive of all fixtures and separate charges for minor T&P's shall not be made) First Floor						
					Present Qty	0.00	Sqm
					Qty Paid upto 4th Bill	0.00	Sqm
					Total Qty	0.00	Sqm
					Deduct Qty Paid upto 4th Bill	0.00	Sqm
					Qty to be paid in 5th Final Bill	0.00	Sqm
50	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying priming coat of approved steel primer. M.S. tube including cost of materials, labour, usage charges of machinery complete as per specifications and as per directions of the Engineerin- Charge.						
					Present Qty	0.00	kg
					Qty Paid upto 4th Bill	185.13	kg
					Total Qty	185.13	kg
					Deduct Qty Paid upto 4th Bill	185.13	kg
					Qty to be paid in 5th Final Bill	0.00	kg

Contractor

Consultant

Asst. Engineer

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Asst. Exec. Engineer

Item No	Discription of Item	No	Length	A.Breadth	Depth	Qty	Unit
51	Providing and laying in position Reinforced cement concrete for all Foundation works. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticizers laid in finished layers, well compacted using needle vibrators, including all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates (Including Centering and Shuttering for Columns)						
	Present Qty					**0.00**	**Cum**
	Qty Paid upto 4th Bill					**8.01**	**Cum**
	Total Qty					**8.01**	**Cum**
	Deduct Qty Paid upto 4th Bill					**8.01**	**Cum**
	Qty to be paid in 5th Final Bill					**0.00**	**Cum**
52	Providing and laying in position Reinforced cement concrete for all Foundation works. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticizers laid in finished layers, well compacted using needle vibrators, including all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates (Including Centering and Shuttering for Lintel, Beams, Slab)						
	Present Qty					**0.00**	**Cum**
	Qty Paid upto 4th Bill					**78.38**	**Cum**
	Total Qty					**78.38**	**Cum**
	Deduct Qty Paid upto 4th Bill					**78.38**	**Cum**
	Qty to be paid in 5th Final Bill					**0.00**	**Cum**
53	Providing Thermo-Mechanically Treated bars of grade Fe-500D or more Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position, binding and anchoring to adjacent members whereever necessary complete as per Design including cost of material, labour, usage charges complete as per specifications. (The laps and wastages shall not be measured separately) First Floor						
	Present Qty					**0.00**	**kg**
	Qty Paid upto 4th Bill					**15090.40**	**kg**
	Total Qty					**15090.40**	**kg**
	Deduct Qty Paid upto 4th Bill					**15090.40**	**kg**
	Qty to be paid in 5th Final Bill					**0.00**	**kg**

Contractor

Consultant

Asst. Engineer

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore

Asst. Exec. Engineer

Item No	Discription of Item	No	Length	A.Breadth	Depth	Qty	Unit
54	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x150x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications. First Floor						Sqm
					Present Qty	**0.00**	**Sqm**
					Qty Paid upto 4th Bill	**228.07**	**Sqm**
					Total Qty	**228.07**	**Sqm**
					Deduct Qty Paid upto 4th Bill	**228.07**	**Sqm**
					Qty to be paid in 5th Final Bill	**0.00**	**Sqm**
55	Providing 20 mm cement plaster of mix :1:4 (1 cement: 4 fine sand) to brick/stone masonary including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge. First Floor						
					Present Qty	**0.00**	**Sqm**
					Qty Paid upto 4th Bill	**289.88**	**Sqm**
					Total Qty	**289.88**	**Sqm**
					Deduct Qty Paid upto 4th Bill	**289.88**	**Sqm**
					Qty to be paid in 5th Final Bill	**0.00**	**Sqm**
56	Providing 12 mm cement plaster with cement mortar 1:6 (1 cement: 6 fine sand) including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge. First Floor						
					Present Qty	**0.00**	**Sqm**
					Qty Paid upto 4th Bill	**542.63**	**Sqm**
					Total Qty	**542.63**	**Sqm**
					Deduct Qty Paid upto 4th Bill	**542.63**	**Sqm**
					Qty to be paid in 5th Final Bill	**0.00**	**Sqm**
57	Finishing walls with water proofing cement paint of required shade :New work (Two coats applied @ 4.84 kg/10 m^2) to give an even shade after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge. First Floor						
					Present Qty	**0.00**	**Sqm**
					Qty Paid upto 4th Bill	**258.54**	**Sqm**
					Total Qty	**258.54**	**Sqm**
					Deduct Qty Paid upto 4th Bill	**258.54**	**Sqm**
					Qty to be paid in 5th Final Bill	**0.00**	**Sqm**

Contractor

Consultant

Asst. Engineer

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore - 92

Asst. Executive Engineer

Item No	Discription of Item	No	Length	A.Breadth	Depth	Qty	Unit
58	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade: One coats on old work as per specifications and as per directions of Engineer in charge. First Floor						
					Present Qty	**0.00**	**Sqm**
					Qty Paid upto 4th Bill	**293.44**	**Sqm**
					Total Qty	**293.44**	**Sqm**
					Deduct Qty Paid upto 4th Bill	**293.44**	**Sqm**
					Qty to be paid in 5th Final Bill	**0.00**	**Sqm**
59	Providing and laying Polished Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing , curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge.** Polished Granite stone slab Black, Cherry Red, Brown, Cat Eye, River Pink or equivalent.						
					Present Qty	**0.00**	**Sqm**
					Qty Paid upto 4th Bill	**267.42**	**Sqm**
					Total Qty	**267.42**	**Sqm**
					Deduct Qty Paid upto 4th Bill	**267.42**	**Sqm**
					Qty to be paid in 5th Final Bill	**0.00**	**Sqm**
60	Providing and fixing of wall cladding using 20mm thick gang saw water cut Shiva gold granite, grey granite in CM 1:3 (1 cement : 3 coarse sand) proportion cut to required shape, pattern with paper joints, finished with cement mortal using white cement and colour pigments to match the colour of slab making through jointing with sealant, making holes 25mmx12mm grooves in joints including cost of all materials, mortar, labour, curing etc., complete.						
					Present Qty	**0.00**	**Sqm**
					Qty Paid upto 4th Bill	**40.02**	**Sqm**
					Total Qty	**40.02**	**Sqm**
					Deduct Qty Paid upto 4th Bill	**40.02**	**Sqm**
					Qty to be paid in 5th Final Bill	**0.00**	**Sqm**
61	Providing Honne wood frames of doors, windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps), but including cost of materials, labour, usage charges complete as per specifications First Floor						
					Present Qty	**0.00**	**Cum**
					Qty Paid upto 4th Bill	**0.32**	**Cum**
					Total Qty	**0.32**	**Cum**
					Deduct Qty Paid upto 4th Bill	**0.32**	**Cum**
					Qty to be paid in 5th Final Bill	**0.00**	**Cum**

Contractor

ARTN ASSOCIATES DATF Consultant BANGALORE

Asst. Engineer

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore

Item No	Discription of Item	No	Length	A.Breadth	Depth	Qty	Unit
62	Fixing of door frame in an existing opening including embedding frame in floor and walls after cutting masonry for holdfasts for embedding holdfast in cement concrete 1:3:6 of 20mm and down size granite metal painting two coats of coal tar to sides of frame, making good the damages to walls and floor as required and disposal of the debris with lead upto 50 m. including cost of materials, labour charges, complete as per specifications. First Floor						
					Present Qty	**0.00**	**Nos**
					Qty Paid upto 4th Bill	**3.00**	**Nos**
					Total Qty	**3.00**	**Nos**
					Deduct Qty Paid upto 4th Bill	**3.00**	**Nos**
					Qty to be paid in 5th Final Bill	**0.00**	**Nos**
63	Providing and fixing in position fully panelled Honne wood shutters for doors with stiles and rails of 40mm. thick with bottom and lock rails 180mm wide top rail and stiles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, usage charges complete as per specifications. (excluding cost of fixtures) First Floor						
					Present Qty	**0.00**	**Sqm**
					Qty Paid upto 4th Bill	**8.97**	**Sqm**
					Total Qty	**8.97**	**Sqm**
					Deduct Qty Paid upto 4th Bill	**8.97**	**Sqm**
					Qty to be paid in 5th Final Bill	**0.00**	**Sqm**
64	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete. Fixed to openings / wooden frames with rawl plugs screws etc.						
					Present Qty	**0.00**	**kg**
					Qty Paid upto 4th Bill	**3819.07**	**kg**
					Total Qty	**3819.07**	**kg**
					Deduct Qty Paid upto 4th Bill	**3819.07**	**kg**
					Qty to be paid in 5th Final Bill	**0.00**	**kg**
65	Providing & fixing of 3-track x 2-panel sliding windows made out of multi chambered UPVC(Matching to RAL-9016) sections and with minimum TiO2(Titanium Dioxide) at 6PHR with TPE(Thermo Plastic Elastomer) and lead free, gaskets -grey colour having isolated drainage and reinforced with Galvanized Iron profile through-out the window frame. The outer frame having an overall size of 108mm width x 45mmheight with reinforcement of 1mm thickness and Sash with overall size of 39mm x 75mm with GI reinforcement of 2mm and mesh sash of size 37mm x 58mm. Coextruded Glazing bead for fixing of glass shall be of size 20mm x 24 mm. Windows shall be provided with 6mm plain float glass, standard hardware& Multi point locking system with touch lock. Wall thickness of frame & sash shall be of 2mm-2.5mm. Maximum possible size – 2419mm x 2200mm. (The cost is inclusive of all fixtures and separate charges for minor T&P's shall not be made) Ground Floor						
					Present Qty	**0.00**	**Sqm**

Contractor

Consultant

Asst. Engineer

Asst. Executive Engineer
Project Division
Yelahanka Zone

Asst. Engineer

Item No	Description of Item	No	Length	Breadth	Depth	Qty	Unit
					Qty Paid upto 4th Bill	0.00	Sqm
					Total Qty	0.00	Sqm
					Deduct Qty Paid upto 4th Bill	0.00	Sqm
					Qty to be paid in 5th Final Bill	0.00	Sqm
66	Providing & fixing of louvered ventilator made out of multi chambered UPVC(Matching to R.U.-30106) sections and with minimum TiO2(Titanium Dioxide) at 6PHR with TPE(Thermo Plastic Elastomer) and lead free with gaskets -grey colour having isolated drainage and reinforced with Galvanized Iron profile through-out the ventilator frame. The frame having overall size of 39mm x 39mm with GI reinforcement of 1mm thickness. Louver clip in						
					Present Qty	0.00	Sqm
					Qty Paid upto 4th Bill	0.00	Sqm
					Total Qty	0.00	Sqm
					Deduct Qty Paid upto 4th Bill	0.00	Sqm
					Qty to be paid in 5th Final Bill	0.00	Sqm
67	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying priming coat of approved steel primer. M.S. tube including cost of materials, labour, usage charges of machinery complete as per specifications and as per directions of the Engineerin- Charge.						
					Present Qty	0.00	kg
					Qty Paid upto 4th Bill	209.01	kg
					Total Qty	209.01	kg
					Deduct Qty Paid upto 4th Bill	209.01	kg
					Qty to be paid in 5th Final Bill	0.00	kg
68	Providing and laying in position Reinforced cement concrete for all Foundation works. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticizers laid in finished layers, well compacted using needle vibrators, including all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates (Including Centering and Shuttering for Columns)						
					Present Qty	0.00	Sqm
					Qty Paid upto 4th Bill	0.00	Sqm
					Total Qty	0.00	Sqm
					Deduct Qty Paid upto 4th Bill	0.00	Sqm
					Qty to be paid in 5th Final Bill	0.00	Sqm

Contractor

Consultants

Asst. Engineer

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore

Item No	Discription of Item	No	Length	A.Breadth	Depth	Qty	Unit
69	Providing and laying in position Reinforced cement concrete for all Foundation works. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticizers laid in finished layers, well compacted using needle vibrators, including all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates (Including Centering and Shuttering for Lintel, Beams, Slab)						
	Present Qty					**0.00**	**Sqm**
	Qty Paid upto 4th Bill					**19.78**	**Sqm**
	Total Qty					**19.78**	**Sqm**
	Deduct Qty Paid upto 4th Bill					**19.78**	**Sqm**
	Qty to be paid in 5th Final Bill					**0.00**	**Sqm**
70	Providing Thermo-Mechanically Treated bars of grade Fe-500D or more Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position, binding and anchoring to adjacent members whereever necessary complete as per Design including cost of material, labour, usage charges complete as per specifications. (The laps and wastages shall not be measured separately) First Floor						
	Present Qty					**0.00**	**kg**
	Qty Paid upto 4th Bill					**0.00**	**kg**
	Total Qty					**0.00**	**kg**
	Deduct Qty Paid upto 4th Bill					**0.00**	**kg**
	Qty to be paid in 5th Final Bill					**0.00**	**kg**
71	Providing and fixing Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete. Hot finished seamless type tubes including cost of materials, labour, usage charges of machinery complete as per specifications and as per directions of the Engineer-in-Charge.						
	Present Qty					**0.00**	**kg**
	Qty Paid upto 4th Bill					**1591.20**	**kg**
	Total Qty					**1591.20**	**kg**
	Deduct Qty Paid upto 4th Bill					**1591.20**	**kg**
	Qty to be paid in 5th Final Bill					**0.00**	**kg**

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Contractor

MARTIN ASSOCIATES BANGALORE

Consultant

Asst. Engineer

Asst. Exec. Engineer

Item No	Discription of Item	No	Length	A.Breadth	Depth	Qty	Unit
72	Supply of self supporting Meteeno made Glamet 30mm thick insulated sandwich PUF Panels for Roofingmade out off CFC free factory injected Polyurethane foam in between two metal sheets. The thickness ofthe panel shall form 30mm outer excluding profile The panel should manufactured in continous lineprocess Externaltop sheet shall be trapezoidal sheet with 38mm crest & distance between two crest willbe 333.3mm pitch made out of 0.4TCT colour coated Galvanized steel having 16-20micron primer coat						
					Present Qty	**0.00**	**Sqm**
					Qty Paid upto 4th Bill	**30.60**	**Sqm**
					Total Qty	**30.60**	**Sqm**
					Deduct Qty Paid upto 4th Bill	**30.60**	**Sqm**
					Qty to be paid in 5th Final Bill	**0.00**	**Sqm**
73	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x150x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications. First Floor						
					Present Qty	**0.00**	**Sqm**
					Qty Paid upto 4th Bill	**74.30**	**Sqm**
					Total Qty	**74.30**	**Sqm**
					Deduct Qty Paid upto 4th Bill	**74.30**	**Sqm**
					Qty to be paid in 5th Final Bill	**0.00**	**Sqm**
74	Providing 20 mm cement plaster of mix :1:4 (1 cement: 4 fine sand) to brick/stone masonary including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge. First Floor						
					Present Qty	**0.00**	**Sqm**
					Qty Paid upto 4th Bill	**181.13**	**Sqm**
					Total Qty	**181.13**	**Sqm**
					Deduct Qty Paid upto 4th Bill	**181.13**	**Sqm**
					Qty to be paid in 5th Final Bill	**0.00**	**Sqm**
75	Providing 12 mm cement plaster with cement mortar 1:6 (1 cement: 6 fine sand) including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge. First Floor						
					Present Qty	**0.00**	**Sqm**
					Qty Paid upto 4th Bill	**64.25**	**Sqm**
					Total Qty	**64.25**	**Sqm**
					Deduct Qty Paid upto 4th Bill	**64.25**	**Sqm**
					Qty to be paid in 5th Final Bill	**0.00**	**Sqm**

Contractor

Consultant

Asst. Engineer

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Asst. Exec. Engineer

Item No	Discription of Item	No	Length	A.Breadth	Depth	Qty	Unit
76	Finishing walls with water proofing cement paint of required shade :New work (Two coats applied @ 4.84 kg/10 m^2) to give an even shade after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge. First Floor						
	Present Qty					**0.00**	**Sqm**
	Qty Paid upto 4th Bill					**181.13**	**Sqm**
	Total Qty					**181.13**	**Sqm**
	Deduct Qty Paid upto 4th Bill					**181.13**	**Sqm**
	Qty to be paid in 5th Final Bill					**0.00**	**Sqm**
77	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade: One coats on old work as per specifications and as per directions of Engineer in charge. First Floor						
	Present Qty					**0.00**	**Sqm**
	Qty Paid upto 4th Bill					**64.25**	**Sqm**
	Total Qty					**64.25**	**Sqm**
	Deduct Qty Paid upto 4th Bill					**64.25**	**Sqm**
	Qty to be paid in 5th Final Bill					**0.00**	**Sqm**
78	Providing and laying Polished Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing , curing and polishing etc all complete as specified and as directed by the Engineer-in-Charge.** Polished Granite stone slab Black, Cherry Red, Brown, Cat Eye, River Pink or equivalent.						
	Present Qty					**0.00**	**Sqm**
	Qty Paid upto 4th Bill					**0.00**	**Sqm**
	Total Qty					**0.00**	**Sqm**
	Deduct Qty Paid upto 4th Bill					**0.00**	**Sqm**
	Qty to be paid in 5th Final Bill					**0.00**	**Sqm**
79	Providing and fixing of wall cladding using 20mm thick gang saw water cut Shiva gold granite, grey granite in CM 1:3 (1 cement : 3 coarse sand) proportion cut to required shape, pattern with paper joints, finished with cement mortal using white cement and colour pigments to match the colour of slab making through jointing with sealant, making holes 25mmx12mm grooves in joints including cost of all materials, mortar, labour, curing etc., complete.						
	Present Qty					**0.00**	**Sqm**
	Qty Paid upto 4th Bill					**0.00**	**Sqm**
	Total Qty					**0.00**	**Sqm**
	Deduct Qty Paid upto 4th Bill					**0.00**	**Sqm**
	Qty to be paid in 5th Final Bill					**0.00**	**Sqm**

Contractor

Consultant

Asst. Engineer

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Asst. Exec. Engineer

Item No	Discription of Item	No	Length	A.Breadth	Depth	Qty	Unit
80	Providing Honne wood frames of doors, windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps), but including cost of materials, labour, usage charges complete as per specifications First Floor						
	Present Qty					**0.00**	**Cum**
	Qty Paid upto 4th Bill					**0.10**	**Cum**
	Total Qty					**0.10**	**Cum**
	Deduct Qty Paid upto 4th Bill					**0.10**	**Cum**
	Qty to be paid in 5th Final Bill					**0.00**	**Cum**
81	Fixing of door frame in an existing opening including embedding frame in floor and walls after cutting masonry for holdfasts for embedding holdfast in cement concrete 1:3:6 of 20mm and down size granite metal painting two coats of coal tar to sides of frame, making good the damages to walls and floor as required and disposal of the debris with lead upto 50 m. including cost of materials, labour charges, complete as per specifications. First Floor						
	Present Qty					**0.00**	**Nos**
	Qty Paid upto 4th Bill					**1.00**	**Nos**
	Total Qty					**1.00**	**Nos**
	Deduct Qty Paid upto 4th Bill					**1.00**	**Nos**
	Qty to be paid in 5th Final Bill					**0.00**	**Nos**
82	Providing and fixing in position fully panelled Honne wood shutters for doors with stiles and rails of 40mm. thick with bottom and lock rails 180mm wide top rail and stiles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, usage charges complete as per specifications. (excluding cost of fixtures) First Floor						
	Present Qty					**0.00**	**Sqm**
	Qty Paid upto 4th Bill					**2.05**	**Sqm**
	Total Qty					**2.05**	**Sqm**
	Deduct Qty Paid upto 4th Bill					**2.05**	**Sqm**
	Qty to be paid in 5th Final Bill					**0.00**	**Sqm**
83	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete. Fixed to openings / wooden frames with rawl plugs screws etc.						
	Present Qty					**0.00**	**kg**
	Qty Paid upto 4th Bill					**2847.07**	**kg**
	Total Qty					**2847.07**	**kg**
	Deduct Qty Paid upto 4th Bill					**2847.07**	**kg**

Contractor

Consultant

Asst. Engineer

Asst. Executive Engineer
Project Division
Yelahanka Zone

Asst. Exec. Engineer

Item No	Discription of Item	No	Length	A.Breadth	Depth	Qty	Unit
	Qty to be paid in 5th Final Bill					**0.00**	**kg**
84	Providing & fixing of 3-track x 2-panel sliding windows made out of multi chambered UPVC(Matching to RAL-9016) sections and with minimum TiO2(Titanium Dioxide) at 6PHR with TPE(Thermo Plastic Elastomer) and lead free, gaskets -grey colour having isolated drainage and reinforced with Galvanized Iron profile through-out the window frame. The outer frame having an overall size of 108mm width x 45mmheight with reinforcement of 1mm thickness and Sash with overall size of 39mm x 75mm with GI reinforcement of 2mm and mesh sash of size 37mm x 58mm. Coextruded						
	Present Qty					**0.00**	**Sqm**
	Qty Paid upto 4th Bill					**0.00**	**Sqm**
	Total Qty					**0.00**	**Sqm**
	Deduct Qty Paid upto 4th Bill					**0.00**	**Sqm**
	Qty to be paid in 5th Final Bill					**0.00**	**Sqm**
85	Providing & fixing of louvered ventilator made out of multi chambered UPVC(Matching to RAL-9016) sections and with minimum TiO2(Titanium Dioxide) at 6PHR with TPE(Thermo Plastic Elastomer) and lead free with gaskets -grey colour having isolated drainage and reinforced with Galvanized Iron profile through-out the ventilator frame. The frame having overall size of 39mm x 39mm with GI reinforcement of 1mm thickness. Louver clip in Aluminium (powder coated in white) will be used on the frame along with plastic parts for fixing the 4 mm pin head glass. Wall thickness of frame shall be 2mm.Maximum possible size – 1000mm x 1000mm.(The cost is inclusive of all fixtures and separate charges for minor T&P's shall not be made) First Floor						
	Present Qty					**0.00**	**Sqm**
	Qty Paid upto 4th Bill					**0.00**	**Sqm**
	Total Qty					**0.00**	**Sqm**
	Deduct Qty Paid upto 4th Bill					**0.00**	**Sqm**
	Qty to be paid in 5th Final Bill					**0.00**	**Sqm**
86	Supplying heavy gauge PVC conduit pipe ..... mm dia.....mm thick confirming to IS 2509 with suitable size bends, metal/PVC Junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused						
	Present Qty					**0.00**	**m**
	Qty Paid upto 4th Bill					**150.00**	**m**
	Total Qty					**150.00**	**m**
	Deduct Qty Paid upto 4th Bill					**150.00**	**m**
	Qty to be paid in 5th Final Bill					**0.00**	**m**
87	Supplying and flush mounting powder coated / galvanized metal box suitable for mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C.C wall 6 Way						
	Present Qty					**0.00**	**each**

Contractor

Consultant

Asst. Engineer

Asst. Executive Engineer

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Item No	Discription of Item	No	Length	A.Breadth	Depth	Qty	Unit
					Qty Paid upto 4th Bill	**21.00**	**each**
					Total Qty	**21.00**	**each**
					Deduct Qty Paid upto 4th Bill	**21.00**	**each**
					Qty to be paid in 5th Final Bill	**0.00**	**each**
88	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box 6Module						
					Present Qty	**0.00**	**each**
					Qty Paid upto 4th Bill	**21.00**	**each**
					Total Qty	**21.00**	**each**
					Deduct Qty Paid upto 4th Bill	**21.00**	**each**
					Qty to be paid in 5th Final Bill	**0.00**	**each**
89	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293.6A One Way Switch						
					Present Qty	**0.00**	**each**
					Qty Paid upto 4th Bill	**140.00**	**each**
					Total Qty	**140.00**	**each**
					Deduct Qty Paid upto 4th Bill	**140.00**	**each**
					Qty to be paid in 5th Final Bill	**0.00**	**each**
90	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293.6A Three Way socket						
					Present Qty	**0.00**	**each**
					Qty Paid upto 4th Bill	**24.00**	**each**
					Total Qty	**24.00**	**each**
					Deduct Qty Paid upto 4th Bill	**24.00**	**each**
					Qty to be paid in 5th Final Bill	**0.00**	**each**
91	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293.Stepped Fan Regulator Two Module						
					Present Qty	**0.00**	**each**
					Qty Paid upto 4th Bill	**36.00**	**each**
					Total Qty	**36.00**	**each**
					Deduct Qty Paid upto 4th Bill	**36.00**	**each**
					Qty to be paid in 5th Final Bill	**0.00**	**each**

Contractor

Consultant

Asst. Engineer

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Asst. Exec. Engineer

Item No	Discription of Item	No	Length	A.Breadth	Depth	Qty	Unit
92	Supplying and wiring adopting loop system in existing PVC Conduit /casing capping casing capping using 2x1.5mm2 (Phase & Neutral) & 1x1.0 mm2 (Earth wire) FRLS multi strand PVC insulated copper wire (confirming to IS-694: and latest amendments) without control switch shall be fixed on the existing plastic sheet/ gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet.. Short point upto 3m from tapping point to out let via switch box						
					Present Qty	**0.00**	**point**
					Qty Paid upto 4th Bill	**15.00**	**point**
					Total Qty	**15.00**	**point**
					Deduct Qty Paid upto 4th Bill	**15.00**	**point**
					Qty to be paid in 5th Final Bill	**0.00**	**point**
93	Supplying and fixing metal Fan box with Round Hook.						
					Present Qty	**0.00**	**each**
					Qty Paid upto 4th Bill	**36.00**	**each**
					Total Qty	**36.00**	**each**
					Deduct Qty Paid upto 4th Bill	**36.00**	**each**
					Qty to be paid in 5th Final Bill	**0.00**	**each**
94	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694:confirming to latest amendments 1 mm2						
					Present Qty	**0.00**	**m**
					Qty Paid upto 4th Bill	**180.00**	**m**
					Total Qty	**180.00**	**m**
					Deduct Qty Paid upto 4th Bill	**180.00**	**m**
					Qty to be paid in 5th Final Bill	**0.00**	**m**
95	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694:confirming to latest amendments 1.5 mm2						
					Present Qty	**0.00**	**m**
					Qty Paid upto 4th Bill	**180.00**	**m**
					Total Qty	**180.00**	**m**
					Deduct Qty Paid upto 4th Bill	**180.00**	**m**
					Qty to be paid in 5th Final Bill	**0.00**	**m**
96	Supplying and fixing regular MCB distribution boards on wall/wood board/flush mountin using required clamps, bolts, nuts with provision for fixing suitable type capacity MCB's single phase/3 phase/single door with powder coated painting. Made out of 14 SWG M.S enclosure. Single Door 4 Way SP & N						
					Present Qty	**0.00**	**each**
					Qty Paid upto 4th Bill	**7.00**	**each**
					Total Qty	**7.00**	**each**

Contractor

AARTN ASSOCIATES DATF

Consultant

Asst. Engineer

Asst. Executive Engineer
Project Division
Yelahanka Zone

Asst. Exec. Engineer

Item No	Discription of Item	No	Length	A.Breadth	Depth	Qty	Unit
					Deduct Qty Paid upto 4th Bill	**7.00**	**each**
					Qty to be paid in 5th Final Bill	**0.00**	**each**
97	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898 6-32Amps SP						
					Present Qty	**0.00**	**each**
					Qty Paid upto 4th Bill	**7.00**	**each**
					Total Qty	**7.00**	**each**
					Deduct Qty Paid upto 4th Bill	**7.00**	**each**
					Qty to be paid in 5th Final Bill	**0.00**	**each**
98	Supplying, fixing and wiring eaarth Earth Leakage Miniature Circuit Breaker [ELMCB] 240/250V upto 300mA sensitivity on existing wood/panel board. 16-25Amps 2Pole						
					Present Qty	**0.00**	**each**
					Qty Paid upto 4th Bill	**7.00**	**each**
					Total Qty	**7.00**	**each**
					Deduct Qty Paid upto 4th Bill	**7.00**	**each**
					Qty to be paid in 5th Final Bill	**0.00**	**each**
99	Supplying and fixing of LED type panel board indicating lamp with required colour suitable for 220v A.C. 50 Hz 12/24v D.C						
					Present Qty	**0.00**	**each**
					Qty Paid upto 4th Bill	**3.00**	**each**
					Total Qty	**3.00**	**each**
					Deduct Qty Paid upto 4th Bill	**3.00**	**each**
					Qty to be paid in 5th Final Bill	**0.00**	**each**
100	Supplying of .....feet -PVC Batten with integrated LED tube .... W with high quality diffuser with Life of 25000 burning hours & 70% lumen maintenance with CRI > 80. Power Input: 220-240V@ 50/60Hz & Power factor >0.9 along with CE approved. 2 years Warranty against any manufacturing defect working under standard electrical condition. LED light fitting 1 x 4' - 20/22 W						
					Present Qty	**0.00**	**each**
					Qty Paid upto 4th Bill	**80.00**	**each**
					Total Qty	**80.00**	**each**
					Deduct Qty Paid upto 4th Bill	**80.00**	**each**
					Qty to be paid in 5th Final Bill	**0.00**	**each**
101	Fixing all types and all capacities of fluorescent /false ceiling / spot light / CFL / LED fittings indoor on the wall/ ceiling / rafters / girders using 23/0.0076" twin twisted PVC insulated wires, required Nos of round blocks and clA. On wall/ ceiling / Rafter / Girders						
					Present Qty	**0.00**	**each**

Contractor

AARTH ASSOCIATES DATE BANGALORE Consultant

Asst. Engineer

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore - 92

Asst. Exec. Engineer

Item No	Discription of Item	No	Length	A.Breadth	Depth	Qty	Unit
					Qty Paid upto 4th Bill	**80.00**	**each**
					Total Qty	**80.00**	**each**
					Deduct Qty Paid upto 4th Bill	**80.00**	**each**
					Qty to be paid in 5th Final Bill	**0.00**	**each**
102	Supplying capacitor type ceiling fan complete with down rod blades, shackle, canopies etc, for operation on 230 V, 50 cycles. Single phase AC supply conforming to ISS-374- 1979 and with double ball bearing system. 48" Sweep (1200 mm) Regular model						
					Present Qty	**0.00**	**each**
					Qty Paid upto 4th Bill	**36.00**	**each**
					Total Qty	**36.00**	**each**
					Deduct Qty Paid upto 4th Bill	**36.00**	**each**
					Qty to be paid in 5th Final Bill	**0.00**	**each**
103	Fixing a ceiling / Wall mounting fan of all capacities and all types to the existing 'S" hook with fan regulator to the existing board together with supplying and fixing 5 A. ceiling rose, necessary length of 23 / 0.0076 inch PVC insulated twin twisted copper wire and wiring.						
					Present Qty	**0.00**	**each**
					Qty Paid upto 4th Bill	**36.00**	**each**
					Total Qty	**36.00**	**each**
					Deduct Qty Paid upto 4th Bill	**36.00**	**each**
					Qty to be paid in 5th Final Bill	**0.00**	**each**
E1	**EIRL** "Providing and fixing cold rolled prepainted steel windows of IS standards, made out of 0.6mm thick deep drawing quality galvanised on both sides 120gms/sq.mtr. Primer coat upto 5 microns with thermosetting epoxy resin and finish painted with a polyester based paint 20 microns thick. The size of profiles is approximately 46 x 52mm for external frames, 46x46mm section for shutters, 46x70mm section for centre mullion/transom and 18x31mm section is for fixing glasses. The section should be cut to length joint mitred and assembling by means of corner brackets made out of cold rolled cold annealed strips of 1.2mm thick duly galvanised and fixed with nickle plated self taping screws.The shutters are provided with approved quality of fixtures like handles made out of zamac alloy die cast and powder coated, receiver made out of glass filled nylone and hinges made out of CRCA powder coated. 4mm thick glass should be fixed with EPDM gaskets. Guard bars fabricated out of 10mm square bright bars shall be fixed horizontally at 125mm C/C by rivetting to the external frame. The above frames are fixed to the concrete / masonry walls by means of self expanding screws." with 4mm tinted glass with gaurd bars For First Floor						
					Present Qty	**0.00**	**Sqm**
					Qty Paid upto 4th Bill	**40.60**	**Sqm**
					Total Qty	**40.60**	**Sqm**
					Deduct Qty Paid upto 4th Bill	**40.60**	**Sqm**

Contractor

AARKAY ASSOCIATES DATE No BANGALORE Consultant

Asst. Engineer

Asst. Executive Engineer
Project Division
Yelahanka Zone

Asst. Executive Engineer

Item No	Discription of Item	No	Length	A.Breadth	Depth	Qty	Unit
	Qty to be paid in 5th Final Bill					**0.00**	**Sqm**
E2	"Providing and fixing cold rolled prepainted steel windows of IS standards, made out of 0.6mm thick deep drawing quality galvanised on both sides 120gms/sq.mtr. Primer coat upto 5 microns with thermosetting epoxy resin and finish painted with a polyester based paint 20 microns thick. The size of profiles is approximately 46 x 52mm for external frames, 46x46mm section for shutters, 46x70mm section for centre mullion/transom and 18x31mm section is for fixing glasscs. The section should be cut to length joint mitred and assembling by means of corner brackets made out of cold rolled cold annealed strips of 1.2mm thick duly galvanised and fixed with nickle plated self taping screws.The shutters are provided with approved quality of fixtures like handles made out of zamac alloy die cast and powder coated, receiver made out of glass filled nylone and hinges made out of CRCA powder coated. 4mm thick glass should be fixed with EPDM gaskets. Guard bars fabricated out of 10mm square bright bars shall be fixed horizontally at 125mm C/C by rivetting to the external frame. The above frames are fixed to the concrete / masonry walls by means of self expanding screws." with 4mm tinted glass with gaurd bars For Second Floor						
	Present Qty					**0.00**	**Sqm**
	Qty Paid upto 4th Bill					**40.60**	**Sqm**
	Total Qty					**40.60**	**Sqm**
	Deduct Qty Paid upto 4th Bill					**40.60**	**Sqm**
	Qty to be paid in 5th Final Bill					**0.00**	**Sqm**
E3	Providing and laying 100mm thick pre-cast cover slabs over drains & Rain pit of width not exceeding 800 mm using M20 concrete reinforced with Micro Alloyed High carbon steel with 3mm - 3ply wired steel @ 2.00 kg/m2, slabs jointed in CM 1:3 proportion and nicely finished Including providing holes in the Cover slabs wherever necessary for easydrainage of surface water including of labour, materials, scaffolding, usage of machinery, curing, lead and lift charges etc, Complete. Approved Data rate						
	Present Qty					**0.00**	**Sqm**
	Qty Paid upto 4th Bill					**40.00**	**Sqm**
	Total Qty					**40.00**	**Sqm**
	Deduct Qty Paid upto 4th Bill					**40.00**	**Sqm**
	Qty to be paid in 5th Final Bill					**0.00**	**Sqm**
E4	Providing ruled pointing to cursed stone masonry with lime mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost all materials, labour, usage charges of machinery, curing complete as pre specification (V-II, P.No-190, I No-21.10 of PWD SR 2021-22)						
	Present Qty					**0.00**	**Sqm**
	Qty Paid upto 4th Bill					**1447.86**	**Sqm**
	Total Qty					**1447.86**	**Sqm**
	Deduct Qty Paid upto 4th Bill					**1447.86**	**Sqm**
	Qty to be paid in 5th Final Bill					**0.00**	**Sqm**

Contractor

AARTH ASSOCIATES Consultant

Asst. Engineer

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92
Asst. Exec. Engineer

Item No	Discription of Item	No	Length	A.Breadth	Depth	Qty	Unit
ES	Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver/grader in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density.						
					Present Qty	**0.00**	**Cum**
					Qty Paid upto 4th Bill	**59.01**	**Cum**
					Total Qty	**59.01**	**Cum**
					Deduct Qty Paid upto 4th Bill	**59.01**	**Cum**
					Qty to be paid in 5th Final Bill	**0.00**	**Cum**

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

AARTN ASSOCIATES

Contractor Consultant Asst. Engineer Asst. Exec. Engineer

PACKAGE No-04 Construction of Classrooms to Govt PU College and providing grill fencing and Other developmental Works to ISRO layout Park, Vishweshwarayya park, Raj kumar Park, Sri Saibaba park Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants

Detailed Measurements

Measurement Recorded On: 30/10/23

No.	Discription of Item	No	Length	A.Breadth	Depth	Qty	Unit	Rate	Amount
	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners, stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in- charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts bolts, fasteners etc.) including cost of materials, labour, usage charges of machinery complete as per specifications and as per directions of the Engineer-in-Charge.								
	Yelahanka Lake								
	LHS Side								
	CH:0.00m to 12.30m	1	12.30		1.20	14.76			
	CH:12.30m to 26.60m	1	14.30		1.20	17.16			
	CH:41.60m to 41.60m	1	15.00		1.20	18.00			
	CH:41.60m to 44.00m	1	2.40		1.20	2.88			
						52.80			
	Consider 6kg/Sqm					316.80			
					Present Qty	**316.80**	**Kgs**		
					Qty Paid upto 4th Bill	**62.73**	**Kgs**		
					Total Qty	**379.53**	**Kgs**		
					Deduct Qty Paid upto 4th Bill	**62.73**	**Kgs**		
					Qty to be paid in 5th Final Bill	**316.80**	**Kgs**	**572.44**	**181348.99**
							Sub Total	**10649485.00**	
							GST 18%	**568163.21**	
							Grand Total	**11217648.21**	

30/10/23

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

AARTN ASSOCIATES
DATE
Consultant

Asst. Engineer

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92
Asst. Exe. Engineer